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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/525,269	_	02/22/2005	Daniel J. Artiola	62581A	4993	
109	7590	07/19/2006		EXAMINER		
		ICAL COMPANY	KOSLOW, CAROL M			
INTELLE P. O. BOX		ROPERTY SECTION	•	ART UNIT PAPER NUMBER		
MIDLAN	D, MI 48	641-1967		1755		
				DATE MAIL ED: 07/19/200	DATE MAIL ED: 07/19/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
		10/525,269	ARRIOLA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		C. Melissa Koslow	1755	
 Period for	The MAILING DATE of this communication ap	pears on the cover sheet with the c	correspondence address	-
A SHC WHICH - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPL HEVER IS LONGER, FROM THE MAILING Designs of time may be available under the provisions of 37 CFR 1. IX (6) MONTHS from the mailing date of this communication. Deriod for reply is specified above, the maximum statutory period to the toreply within the set or extended period for reply will, by statuly ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)	Responsive to communication(s) filed on 31 In This action is FINAL. Since this application is in condition for allowed a closed in accordance with the practice under the on of Claims Claim(s) 2-4 is/are pending in the application. a) Of the above claim(s) is/are withdray.	s action is non-final. ance except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 45		
5)□(6)図(7)□(Claim(s) is/are allowed. Claim(s) <u>2-4</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o			
	he specification is objected to by the Examin	er		
	the drawing(s) filed on is/are: a) ☐ acc		Examiner.	
	Applicant may not request that any objection to the			
	Replacement drawing sheet(s) including the corrective oath or declaration is objected to by the E		•	
Priority ur	nder 35 U.S.C. § 119			
a)⊠ 1 2 3	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the priority docum	ts have been received. ts have been received in Applicationity documents have been received in (PCT Rule 17.2(a)).	on No ed in this National Stage	
2)	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) ·a

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This action is in response to applicants' amendment of 31 May 2006. The amendments to the claim have overcome the 35 USC 112 rejection and the art rejection over U.S. 6,653,417.

Applicant's arguments with respect to the art have been considered but are moot in view of the new grounds of rejection.

The listing of references in the Search Report is not considered to be an information disclosure statement (IDS) complying with 37 CFR 1.98. 37 CFR 1.98(a)(2) requires a legible copy of each U.S. and foreign patent, each publication or that portion which caused it to be listed. In addition, each IDS must include a list of all patents, publications, or other information submitted for consideration by the Office (see 37 CFR 1.98(a)(1) and (b)), and MPEP 609 A(1) states, "the list ... must be submitted on a separate paper." Therefore, the references, except WO 02/38628 and U.S. 6,103,657, cited in the Search Report have not been considered. Applicant is advised that the date of submission of any item of information or any missing elements will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the IDS, including all "statement" requirements of 37 CFR 1.97(e). See MPEP § 609 ¶ C(1).

Applicants only cited WO 02/38628 and U.S. 6,103,657 from the search report of 9 February 2004 on the information disclosure statement of 29 April 2005.

Applicant's claim for domestic priority under 35 U.S.C. 119(e) is acknowledged. The effective filing date of this application is that of the provisional application, 17 September 2002.

The disclosure is objected to because of the following informalities: The specification is silent as to how run 2 was produced. Appropriate correction is required.

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The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. patent 6,900,321.

This reference teaches preparing interpolymers of propylene and about 0.2 to about 30 wt% ethylene (col. 78, lines 43-46) with a hafnium complex of pyridylamine ligand catalyst under addition polymerization conditions. The claimed range of ethylene overlaps the claimed range. Product claims with numerical ranges which overlap prior art ranges were held to have been obvious under 35 USC 103. *In re Wertheim* 191 USPQ 90 (CCPA 1976); *In re Malagari* 182 USPQ 549 (CCPA 1974); *In re Fields* 134 USPQ 242 (CCPA 1962); *In re Nehrenberg* 126 USPQ 383 (CCPA 1960). The metal complexes of column 55 through 58, which are used as in propylene copolymer production, all fall within the formula of claim 2. Thus the reference suggests the process of claims 2 and 4.

Column 54, line 1 through column 55, line 15 teach the catalyst used in propylene copolymer production should be a 3,2 hafnium complex catalyst where the hafnium group is HfL₂, and L is methyl or dimethylamido, which is also known as dimethylamine and the ligand should be that of formula XIV where R² is hydrogen and R³ can be o-tolyl or phenanthrenyl and R¹² and R¹³ are both hydrogen and R¹⁰, R¹¹ and the existing phenyl ring form a napthyl group. From the examples in columns 57-58 which teach 3,2 hafnium complex catalysts for propylene copolymer production, it is clear R⁴, R⁵, R⁶, Q², Q³ and Q⁴ in formula XIV are all preferably hydrogen and Q¹ and Q⁵ are each methylethyl groups. Given these teaching, one of ordinary skill in the art would have found it obvious to use ligands L7 and L9, which have the above discussed

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ligand formulas, as the ligands in the taught 3,2 hafnium metal complex in the production of interpolymers of propylene and about 0.2 to about 30 wt% ethylene. Thus, the reference suggests the process of claim 3. The reference suggests the claimed process.

While the most preferred range and one of the more preferred ranges are outside the claimed ranges, the other taught ranges overlap the claimed ranges. As stated above, the overlapping ranges are *prima facia* evidence of the obviousness of the claimed range. There has been no showing of unexpected results. While the reference does not explicitly disclose the formulas of claim 3, it suggests them as discussed above. The rejection is maintained.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa Koslow whose telephone number is (571) 272-1371. The examiner can normally be reached on Monday-Friday from 8:00 AM to 3:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo, can be reached at (571) 272-1233.

The fax number for all official communications is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

cmk July 14, 2006 C. Melissa Koslow Primary Examiner Tech. Center 1700